

Abstract

The invention provides isolated nucleic acids molecules, designated 33312, 33303, 32579, 21509, 33770, 46638, and 50090 nucleic acid molecules, which encode novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 33312, 33303, 32579, 21509, 33770, 46638, or 50090 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 33312, 33303, 32579, 21509, 33770, 46638, or 50090 gene has been introduced or disrupted. The invention still further provides isolated 33312, 33303, 32579, 21509, 33770, 46638, or 50090 proteins, fusion proteins, antigenic peptides and anti-33312, 33303, 32579, 21509, 33770, 46638, or 50090 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.